

What is claimed is:

1. A small ozone generator module comprising:

5        an insulated box having an open face on one of its  
sides;

10        a circuit board being used to generate ozone, being  
installed near the base of said insulated box;

15        a transistor installed on said circuit board  
changing a low input voltage to a high voltage with  
low current;

20        several electrode pins and an electrode board with  
opposing electrodes being each connected to said  
circuit board;

25        said electrode pins and said electrode board  
located on the open face of said box;

30        holes on said electrode board being lined up exactly  
with said each electrode pin, such that the center  
of each hole lining up with the point of said each  
electrode pin, thus facilitating ozone generation  
by point diffusion;

two positive and negative wires to connect to an outside power supply;

5 a layer of insulation resin applied on the interior of said box to surround said circuit board; and the top of said layer of resin being located under said negative electrode board, such that the tips of said electrode pins and said electrode board being on the outside of said resin layer;

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2. The small ozone generator module of claim 1, wherein said resin layer can use epoxy.

15 3. The small ozone generator module of claim 1, wherein said box can be rectangular.

4. The small ozone generator module of claim 3, wherein said box can be 43mm (L) x 18mm (W) x 11.5 mm (H) or smaller.

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5. The small ozone generator module of claim 1, wherein said input of the positive and negative wires can vary within a range of 5~12 volts.

25 6. A small ozone generator module comprising:

an insulated box having an open face on one of its sides;

a circuit board being used to generate ozone, and being installed near the base of said insulated box;

5 a transistor being installed on said circuit board changing a low input voltage to a high voltage with low current;

10 two positive and negative wires to be connected from said box to an external connected structure;

15 said connected structure being composed of several electrode pins and said electrode board with said opposing electrodes being each connected to the circuit board;

20 negative electrode holes on said electrode board being lined up exactly with each said electrode pin, such that the center of each said hole lining up with the point of each said electrode pin, thus facilitating ozone generation by point diffusion;

two positive and negative said wires connecting to an outside power supply; and

25 a layer of insulation resin applied on the interior of said box to surround said circuit board.

7. The small ozone generator module of claim 6, wherein

said resin layer can use epoxy.

8. The small ozone generator module of claim 6, wherein the shape of said can be rectangular.

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9. The small ozone generator module of claim 8, wherein the size of said can be 43mm (L) x 18mm (W) x 11.5 mm (H) or smaller.

10 10. The small ozone generator module of claim 6, wherein the input power of said positive and negative wires can vary within a range of 5~12 volts.

11. A small ozone generator module comprising:

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an insulated box having an open face on one of its sides;

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a circuit board being used to generate ozone being installed near the base of said insulated box;

a transistor being installed on said circuit board changing a low input voltage to a high voltage with low current;

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two positive and negative wires to be connected from said box to an external connected structure;

said connected structure being composed of several electrode pins and an electrode board with opposing electrodes being each connected to said circuit board;

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negative electrode holes on said electrode board being lined up exactly with each said electrode pin, such that the center of each said hole lining up with the point of each said electrode pin, thus facilitating ozone generation by point diffusion;

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two said positive and negative wires being connected to said circuit board located near the base of said box to an ultraviolet light tube, for the purpose of generating ozone gas using the ultraviolet light tube;

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two said positive and negative wires connecting to an outside power supply; and

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a layer of insulation resin applied on the interior of the box to surround said circuit board.

12. The small ozone generator module of claim 11, wherein said resin layer can use epoxy.

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13. The small ozone generator module of claim 11, wherein said box can be rectangular.

14. The small ozone generator module of claim 13,  
wherein said box can be 50mm (L) x 25mm (W) x 20mm  
(H) or smaller.

5 15. The small ozone generator module of claim 11,  
wherein said input power of the positive and  
negative wires can vary within a range of 5~12  
volts.